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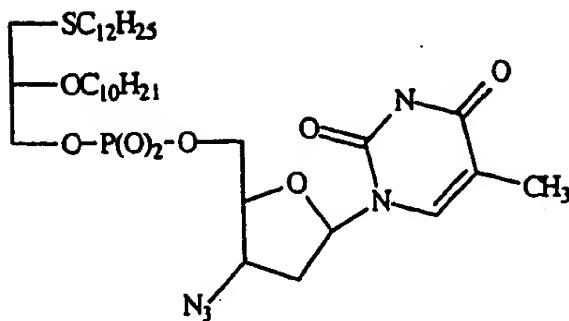
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FIGURE 1A

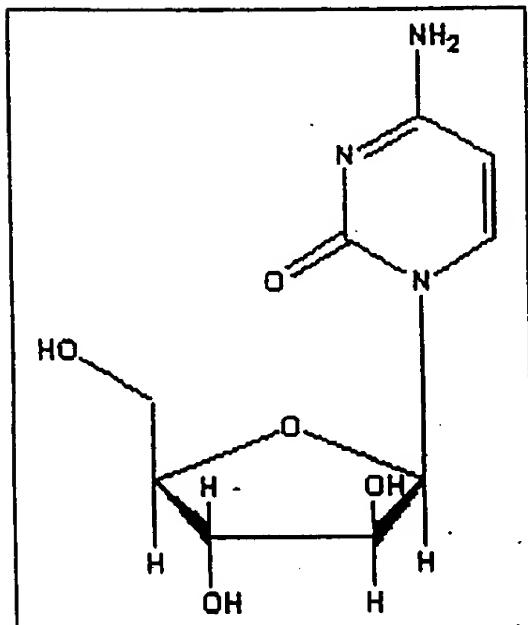
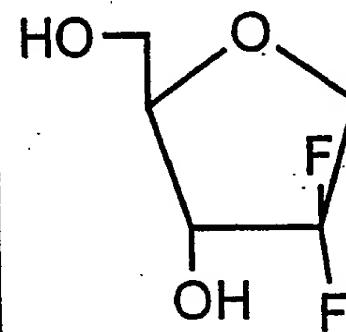
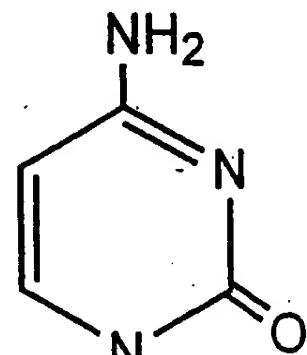


FIGURE 1B

FIGURE 1C

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## Synthesis of Lipid Backbone

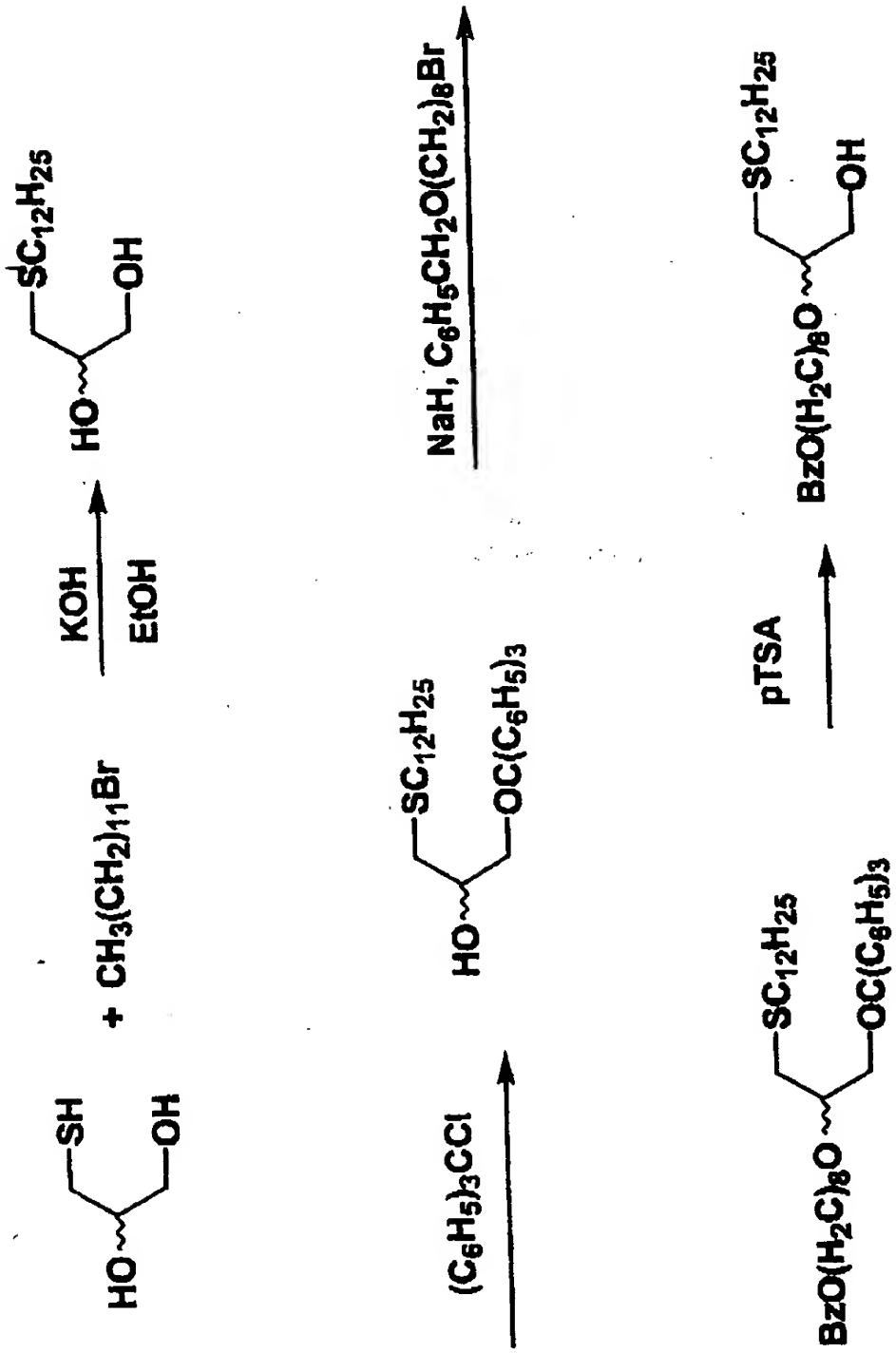


FIGURE 2

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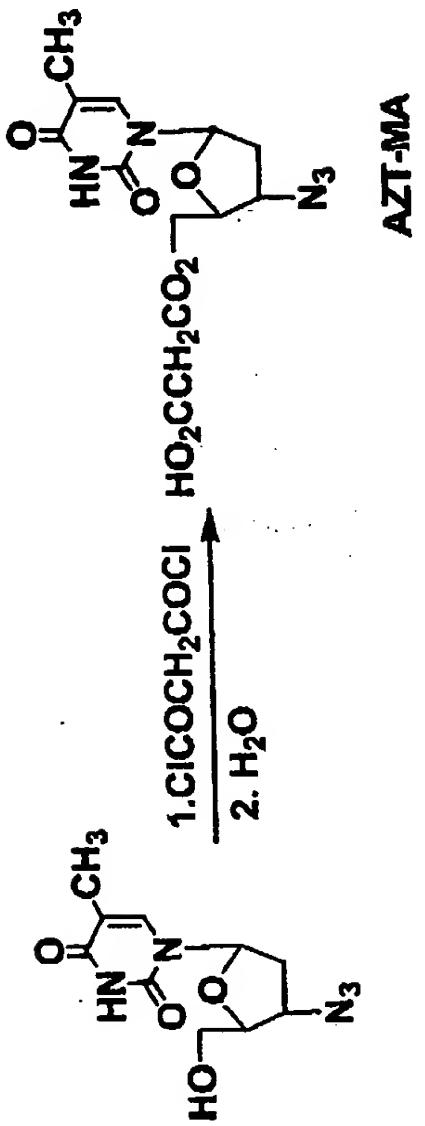
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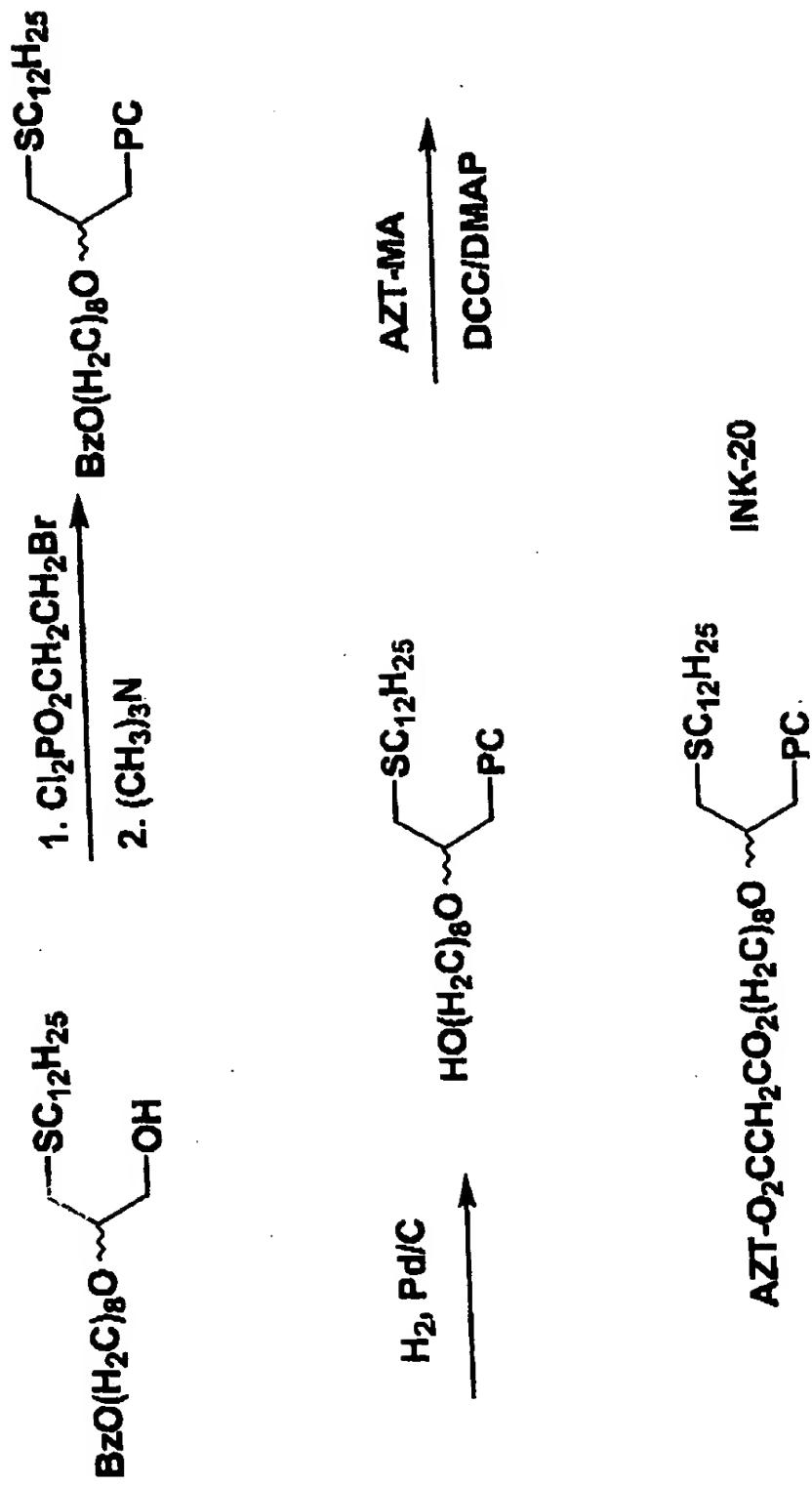
Synthesis of AZT-Malonic Acid (AZT-MA)



Substituted malonic acid chlorides ( $\text{ClCOCHRCCl}$ ) could also be used in the above reaction;  
 $R = \text{CH}_3, \text{CH}_2\text{CH}_3, \text{C}_6\text{H}_5$

FIGURE 3

**Synthesis of AZT-Phosphocholine Conjugate**



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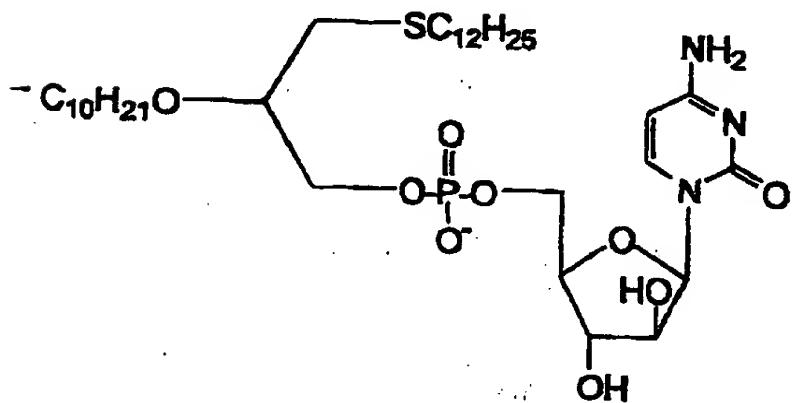
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**lipid & ara-C coupled through phosphate ester**



**lipid & gemcitabine coupled through phosphate ester**

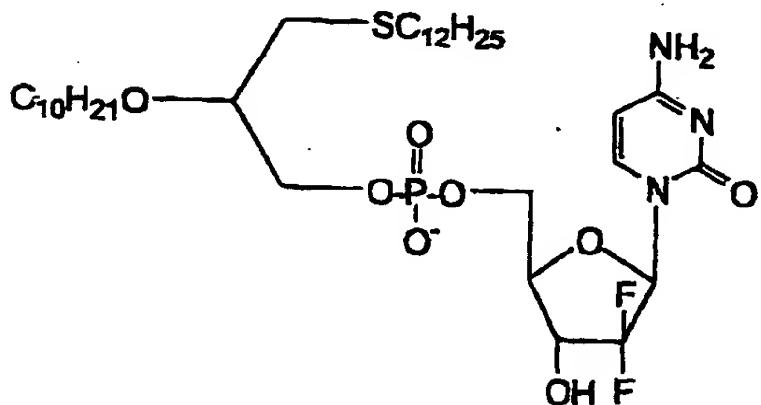


FIGURE 5

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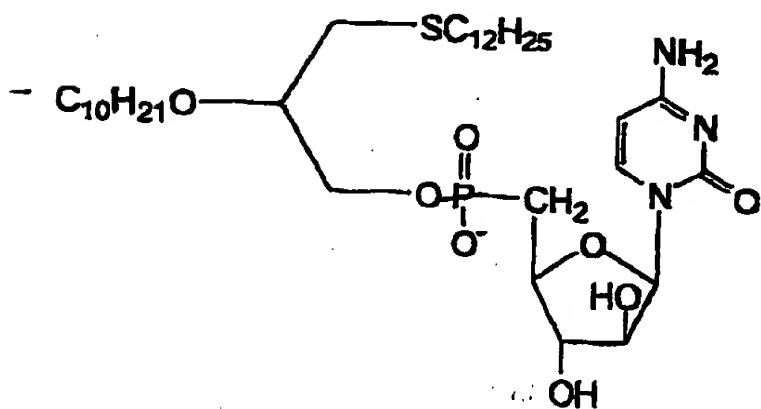
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lipid & ara-C coupled through phosphonate ester



lipid & gemcitabine coupled through phosphonate ester

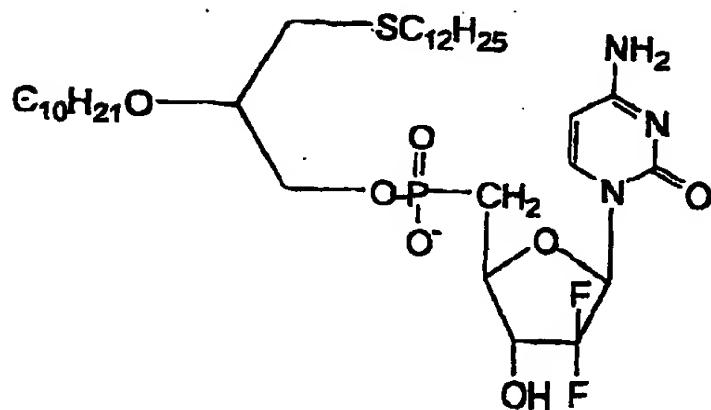


FIGURE 6



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**Lipid coupled to methotrexate through an ester**

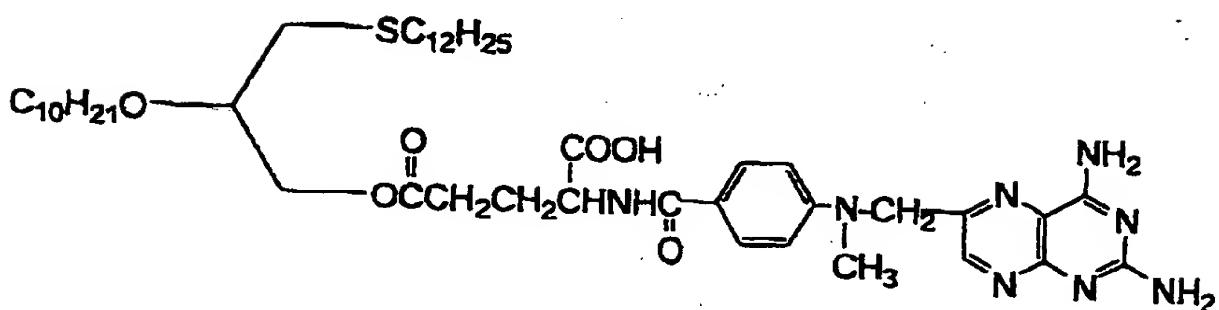


FIGURE 7